MEMORANDUM FOR: Director of Information Technology

0C-0447-88 19 AUG 1988

25X1	FROM:				
		Director of Communications			
25 X 1	SUBJECT:	Facsimile Services			
	about facsimile is anticipated that the manual burdensome and however, only t	know, there has been discussion between our services and the facilities needed to handled be a rapidly growing service. We are all operation at Headquarters is operationally will soon become unworkable. Facsimile is, he most visible of a host of services that we	e what aware		
25X1	following parag tions plan to d would be intere Additionally, w	ciencies in transmission and distribution. Taphs outline what we in the Office of Communication to resolve this matter. As a common problem in your views regarding this plan. Technology to the contact to work with us.	lem, we		
	transporting far transporting na multi-addressin requirements. types of inform binary file) sh not only at the Headquarters di integrated multi needed. Given	concluded that the functional requirements csimile traffic are much the same as for rative traffic, that is: store and forward a udit trails, integrity, and operational it is our view that facsimile as well as other action (text, voice, imagery, or any arbitrational department as possible to the negative level but in the message/data switch stribution facilities. That is to say, a find the media capability responsive to all data that view, our approach is to fit these inflapabilities into the network that we have,	her ry etwork, hes and ully ypes is orma-		
25 X 1	than build some	thing that is unique	ket		
	level. Similar be enhanced to	ly, we believe the Nessage Relay Switch (MR provide for switching facsimile and other d	s, can ata		
25X1					
	CONFIDENTIAL.				

0=144				
25 X 1	SUBJECT:	Facsimile	Services	

files at Headquarters. In the case of facsimile, for example, the enhancements would include the capability to communicate with our RICOH 2112 facsimile unit, and provide store and forward capabilities for an arbitrary binary file. We are proceeding with the MERCURY contractor to do a preliminary design and implementation plan. This analysis will address functional, performance and capacity issues. The dissemination and archiving systems to be used with MRS must also be addressed; will MHF and ALLSTAR Upgrade handle these messages?

- 4. The MRS based solution must not interfere with current MRS activation schedule. This service will not be a near term solution to the requirement. Therefore, we are looking at some interim help in the form of off-the-shelf PC software. The RICOH IMAGENET/IMAGEMAIL package, which allows a PC to act as facsimile server, may be useful. We intend to evaluate that possibility.
- 5. We have also experimented with integrating facsimile and message services at the terminal level. This requires the facsimile unit to be coupled with a PC, which segments and converts facsimile data to a message format (and the reverse) and interfaces directly to message channels. Whereas this might be attractive in isolated situations where network access is a problem, there are too many unknowns regarding performance impact on the message network to make any major commitment to this approach. We do, however, see integrating facsimile and text, as well as other types of data, at the end user level as the proper target for the longer range solution. This would happen in conjunction with the evolution of CRAFT to DOLPHIN.
- 6. The functional development will require the expenditure of funds but the major financial impact will be the acquisition of sufficient computer resources to meet capacity and performance objectives. This may be accounted for in modifications to ongoing initiatives but also as budget issues related to ongoing maintenance/growth. This will have to be discussed further.
- 7. In summary: We intend to start the preliminary work for using MRS for facsimile switching requirements as well as the broader issue of the multi-media capability. Since an enhanced

7

CONFIDENTIAL

25X1

25X1

25X1

25X1

25 X 1	SUBJECT: Facsimile Services
25X1 25X1	MRS is at least two years away, we will look for interim help in the form of off-the-shelf PC hardware and software. Our focal point for this effort is Chief, Network Engineering Group, OC-ED and can be reached
25X1	

Declassified in Part - Sanitized Copy Approved for Release 2012/12/17: CIA-RDP91B00060R000100200007-6

3

CONFIDENTIAL